

Web Images Maps News Shopping Gmail more ▾

[Sign in](#)

Google

watermark detection time offset

Search

[Advanced Search](#)  
[Preferences](#)

Web

Results 1 - 10 of about 12,800 for watermark detection time offset. (0.30 seconds)

### Feature-based watermarks and watermark detection strategies ...

Detection of multiple watermarks and improved watermark calibration signals ..... and placing it slightly offset from the original image. ...

[www.freepatentsonline.com/7020303.html](http://www.freepatentsonline.com/7020303.html) - 47k - [Cached](#) - [Similar pages](#)

### Watermark detection - Patent EP0579461

Therefore, if the detection of the watermark can be established at a certain row of the numerical array, this can be translated to a true physical offset L ...

[www.freepatentsonline.com/EP0579461.html](http://www.freepatentsonline.com/EP0579461.html) - 130k - [Cached](#) - [Similar pages](#)

[More results from www.freepatentsonline.com »](#)

### Feature-based watermarks and watermark detection strategies - US ...

Feature-based watermarks and watermark detection strategies - US Patent 7020303 from Patent ... and placing it slightly offset from the original image. ...

[www.patentstorm.us/patents/7020303-description.html](http://www.patentstorm.us/patents/7020303-description.html) - 37k - [Cached](#) - [Similar pages](#)

### TEMPORAL VIDEO REGISTRATION FOR WATERMARK DETECTION

watermark detection. Robustness to temporal cropping,. scene removal, frame-rate changes ... accurately model time-shift (offset) and differences of frame ...

[ieeexplore.ieee.org/iel5/11024/34758/01660303.pdf?](http://ieeexplore.ieee.org/iel5/11024/34758/01660303.pdf?isnumber=34758&prod=CNF&arnumber=1660303&ar...)

[isnumber=34758&prod=CNF&arnumber=1660303&ar... - Similar pages](#)

### Key Independent Watermark Detection Abstract 1. Introduction 2 ...

Key Independent Watermark Detection. R.G. van Schyndel\*, A.Z. Tirkel. +. , I. D.

Svalbe\* ..... subtracted from each row to avoid a background offset in ...

[doi.ieeecomputersociety.org/10.1109/MMCS.1999.779265](http://doi.ieeecomputersociety.org/10.1109/MMCS.1999.779265) - [Similar pages](#)

### Signal Processing : Spread spectrum audio watermarking using ...

If a desynchronization attack (e.g. time shifting or time offset caused ... Watermark detection results after attacks described above are given in Table 1. ...

[linkinghub.elsevier.com/retrieve/pii/S0165168403002810](http://linkinghub.elsevier.com/retrieve/pii/S0165168403002810) - [Similar pages](#)

### (WO/1999/060791) METHOD AND APPARATUS FOR WATERMARK DETECTION FOR ...

Such scaling, cropping and shifting render the detection of watermarks more .... 2, the relative offset OBI is zero because the fractional remainder of ...

[www.wipo.int/pctdb/en/wo.jsp?wo=1999060791&IA=WO1999060791&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=1999060791&IA=WO1999060791&DISPLAY=DESC) - 87k

- [Cached](#) - [Similar pages](#)

### Estimation of Recording Location Using Audio Watermarking

embedding, watermark detection, and location estimation. are given in Sec. 3. ... This delay causes a time offset of the WHS in the recorded. signal. ...

[portal.acm.org/ft\\_gateway.cfm?id=1161385&type=pdf&coll=GUIDE&dl=-](http://portal.acm.org/ft_gateway.cfm?id=1161385&type=pdf&coll=GUIDE&dl=-) - [Similar pages](#)

### [PDF] Automatic Music Monitoring and Boundary Detection for Broadcast ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Time. Ads. DJ talks. News. Watermark detection in the broadcast monitoring ... that have their origins slightly offset from each other. ...

[www.tri.ibm.com/projects/RightsManagement/datahiding/paper/Taiga\\_EI02Slide.pdf](http://www.tri.ibm.com/projects/RightsManagement/datahiding/paper/Taiga_EI02Slide.pdf) -

[Similar pages](#)

[PDF] [Galaxy Watermark Technology for DVD Copy Protection](#)

File Format: PDF/Adobe Acrobat

Attenuated video segment is compensated by detection time. —. Offer freedom for the contents owners to adjust the watermark strength ...

[www.waea.org/tech/working\\_groups/dvd/1999/DVD99CFCR02-2\\_Galaxy.pdf](http://www.waea.org/tech/working_groups/dvd/1999/DVD99CFCR02-2_Galaxy.pdf) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 [Next](#)

---

watermark detection time offset

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

Web Images Maps News Shopping Gmail more ▾

[Sign in](#)

Google

watermark detection time offset compensation

Search

[Advanced Search](#)  
[Preferences](#)

Web Results 1 - 10 of about 4,310 for watermark detection time offset compensation. (0.08 seconds)

### Patents in Class 375

A frequency offset compensation estimation system and method for a wireless .... the code phase detection time needed to achieve initial synchronization. ...

[www.freepatentsonline.com/CCL-375-p59.html](http://www.freepatentsonline.com/CCL-375-p59.html) - 77k - [Cached](#) - [Similar pages](#)

### (WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS

It is an object of the present invention to provide a compensation for time offset for a watermark decoding scheme that substantially addresses at least one ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC) - 89k

- [Cached](#) - [Similar pages](#)

### Estimation of Recording Location Using Audio Watermarking

embedding, watermark detection, and location estimation. are given in Sec. 3. ... This delay causes a time offset of the WHS in the recorded. signal. ...

[portal.acm.org/ft\\_gateway.cfm?id=1161385&type=pdf&coll=GUIDE&dl=](http://portal.acm.org/ft_gateway.cfm?id=1161385&type=pdf&coll=GUIDE&dl=) - [Similar pages](#)

### [PDF] COVER SHEET

File Format: PDF/Adobe Acrobat - [View as HTML](#)

reduces computational by not tracking robust and fragile watermark positions, its. embedding time and detection time is slightly longer compared to those of ...

[eprints.qut.edu.au/archive/00002560/01/2560\\_1.pdf](http://eprints.qut.edu.au/archive/00002560/01/2560_1.pdf) - [Similar pages](#)

### ISSPIT 2003

Oct 31, 2003 ... 202, REAL TIME COLOR BASED MOTION DETECTION AND TRACKING ...  
292, A GUARD INTERVAL BASED FREQUENCY OFFSET COMPENSATION SCHEME  
FOR MC-CDMA ...

[www.csp.curtin.edu.au/isspit2003/accepted.html](http://www.csp.curtin.edu.au/isspit2003/accepted.html) - 59k - [Cached](#) - [Similar pages](#)

### Against

is optimized to reduce the detection time by employing a ... a review of the block. watermarking. and motion. compensation technique. The basic. structure ...

[ieeexplore.ieee.org/iel5/10203/32544/01521364.pdf](http://ieeexplore.ieee.org/iel5/10203/32544/01521364.pdf) - [Similar pages](#)

### Power efficiency - Power Consumption in Real-Time Threaded ...

Jul 16, 2007 ... Ensure Accurate Data Access When Using An Offset with Itanium .....

multithreading method of the watermark detection application: the ...

[softwarecommunity.intel.com/Wiki/Powerefficiency/524.htm](http://softwarecommunity.intel.com/Wiki/Powerefficiency/524.htm) - 101k - [Cached](#) - [Similar pages](#)

### EUSIPCO'2002 - Conference proceedings

Paper 098: Audio prewhitening based on polynomial filtering for optimal watermark detection. Cvejic Nedeljko, Seppanen Tapio ...

[www.eurasip.org/Proceedings/Eusipco/2002/en/programme\\_05.html](http://www.eurasip.org/Proceedings/Eusipco/2002/en/programme_05.html) - 41k -

[Cached](#) - [Similar pages](#)

### Paper Submissions1

C Toker, Blind multi-user detection of space-time block coded signals in a CDMA ... Analysis of increased correlation in blind audio watermark detection. ...

[pal.ece.iisc.ernet.in/~spcom04/html/paper1.htm](http://pal.ece.iisc.ernet.in/~spcom04/html/paper1.htm) - 44k - [Cached](#) - [Similar pages](#)

### CiteULike: New Additive Watermark Detectors Based On A ...

Based on this model, we derive a class of detectors for the additive watermark detection problem, which include a generalized likelihood ratio, Bayesian, ...  
[www.citeulike.org/user/masaakif/article/2439697](http://www.citeulike.org/user/masaakif/article/2439697) - 209k - [Cached](#) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 [Next](#)

---

watermark detection time offset compensation

[Search](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Purchase His](#)

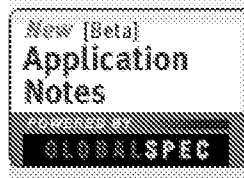
Welcome United States Patent and Trademark Office

[Search Results](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "((watermark &lt;and&gt; detection &lt;and&gt; offset &lt;and&gt; time)&lt;in&gt;metadata)"

Your search matched 0 of 1771499 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

[Search Options](#)[View Session History](#)[New Search](#)

Key

IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

Modify Search

☐ Check to search only within this results set

Display Format:



Citation



Citation &amp; Abstract

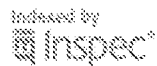
[IEEE/IET](#)[Books](#)[Educational Courses](#)

IEEE/IET journals, transactions, letters, magazines, conference proceedings, and standards.

[view selected items](#)[Select All](#) [Deselect All](#)

No results were found.

Please edit your search criteria and try again. Refer to the Help pages if you need assistance revising your search

[Help](#) [Contact](#)[Copy](#)

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Purchase His](#)

Welcome United States Patent and Trademark Office

[Search Results](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "((watermark &lt;and&gt; detection &lt;and&gt; offset )&lt;in&gt;metadata)"

Your search matched 0 of 1771499 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

[Search Options](#)[View Session History](#)[New Search](#)

Key

IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

Modify Search

☐ Check to search only within this results set

Display Format:



Citation



Citation &amp; Abstract

[IEEE/IET](#)[Books](#)[Educational Courses](#)*Interactive online content developed from IEEE conference tutorials.*[view selected items](#)[Select All](#) [Deselect All](#)

No results were found.

Please edit your search criteria and try again. Refer to the Help pages if you need assistance revising your search

[Help](#) [Contac](#)[Copy](#)


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☒ The ACM Digital Library ☐ The Guide


Feedback

watermark and detection and offset and time

 Terms used: [watermark](#) [detection](#) [offset](#) [time](#)

 Sort results by [relevance](#)

☒ [Save results to a Binder](#)

 Refine these results with  
Try this search in The

 Display results [expanded form](#)

☐ [Open results in a new window](#)

Results 1 - 20 of 20

### 1 [Link-time binary rewriting techniques for program compaction](#)



Bjorn De Sutter, Bruno De Bus, Koen De Bosschere

September 2005 ACM Transactions on Programming Languages and Systems (TOPLAS), vol 27 Issue 5

Publisher: ACM

 Full text available: [pdf\(1.37 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term: review](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 235, Citation Count: 5

Small program size is an important requirement for embedded systems with limited amounts of memory. We describe how link-time compaction through binary rewriting can achieve code size reductions of up to 62&percent; for statically bound languages such ...

Keywords: Program representation, binary rewriting, code abstraction, compaction, interprocedural analysis, linker, whole-program optimization

### 2 [Performance directed energy management for main memory and disks](#)



Xiaodong Li, Zhenmin Li, Yuanyuan Zhou, Sarita Adve

August 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 3

Publisher: ACM

 Full text available: [pdf\(705.24 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 122, Citation Count: 0

Much research has been conducted on energy management for memory and disks. Most studies control algorithms that dynamically transition devices to low power modes after they are idle for certain threshold period of time. The control algorithms ...

Keywords: Disk energy management, adaptation algorithms, control algorithms, low-power design, memory energy management, multiple-power mode device, performance guarantee

### 3 [Overload traffic management for sensor networks](#)



Chieh-Yih Wan, Shane B. Eisenman, Andrew T. Campbell, Jon Crowcroft

October 2007 ACM Transactions on Sensor Networks (TOSN), Volume 3 Issue 4

Publisher: ACM

 Full text available: [pdf\(611.90 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 464, Citation Count: 0

There is a critical need for new thinking regarding overload traffic management in sensor networks. It has now become clear that experimental sensor networks (e.g., mote networks) and their applications commonly experience periods of persistent congestion ...

Keywords: Simulations, system design, testbeds

#### 4 [Protected interactive 3D graphics via remote rendering](#)



David Koller, Michael Turitzin, Marc Levoy, Marco Tarini, Giuseppe Croccia, Paolo Cignoni, Roberto Scopigno

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Papers

Publisher: ACM

Full text available: pdf(368.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 153, Citation Count: 5

Valuable 3D graphical models, such as high-resolution digital scans of cultural heritage objects, require protection to prevent piracy or misuse, while still allowing for interactive display and manipulation by a widespread audience. We have investigated ...

Keywords: 3D models, digital rights management, remote rendering, security

#### 5 [Protected interactive 3D graphics via remote rendering](#)



David Koller, Michael Turitzin, Marc Levoy, Marco Tarini, Giuseppe Croccia, Paolo Cignoni, Roberto Scopigno

August 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 3

Publisher: ACM

Full text available: pdf(368.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 153, Citation Count: 5

Valuable 3D graphical models, such as high-resolution digital scans of cultural heritage objects, require protection to prevent piracy or misuse, while still allowing for interactive display and manipulation by a widespread audience. We have investigated ...

Keywords: 3D models, digital rights management, remote rendering, security

#### 6 [Architectural Support for Software Transactional Memory](#)

Bratin Saha, Ali-Reza Adl-Tabatabai, Quinn Jacobson

December 2006 MICRO 39: Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available: pdf(325.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 444, Citation Count: 6

Transactional memory provides a concurrency control mechanism that avoids many of the pitfalls of lock-based synchronization. Researchers have proposed several different implementations of transactional memory, broadly classified into software transactional ...

#### 7 [Exploiting self-similarities to defeat digital watermarking systems: a case study on still images](#)




Gwenaél Doërr, Jean-Luc Dugelay, Lucas Grangé

September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimedia and security

Publisher: ACM



Full text available:  pdf(1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 176, Citation Count: 0

Unauthorized digital copying is a major concern for multi-media content providers. Since copyright owners lose control over content distribution as soon as data is decrypted or unscrambled, digital watermarking has been introduced as a complementary ...

Keywords: block replacement attack, intra-signal collusion, self-similarities

## 8 [Video copy detection: a comparative study](#)



Julien Law-To, Li Chen, Alexis Joly, Ivan Laptev, Olivier Buisson, Valerie Gouet-Brunet, Nozha Boujemaa, Fred Stentiford

July 2007 CIVR '07: Proceedings of the 6th ACM international conference on Image and video retrieval

Publisher: ACM

Full text available:  pdf(616.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 129, Citation Count: 0

This paper presents a comparative study of methods for video copy detection. Different state-of-the-art techniques, using various kinds of descriptors and voting functions, are described: global video descriptors, based on spatial and temporal features; ...

Keywords: content-based video copy detection

## 9 [Performance factors analysis of a wavelet-based watermarking method](#)

Chaw-Seng Woo, Jiang Du, Binh Pham

January 2005 ACSW Frontiers '05: Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44, Volume 44

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(512.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 85, Citation Count: 0

The essential performance metrics of a robust watermark include robustness, imperceptibility, watermark capacity and security. In addition, computational cost is important for practicality. Wavelet-based image watermarking methods exploit the frequency ...

Keywords: discrete wavelet transform (DWT), embedding technique, human visual system (HVS), robust image watermark

## 10 [Program obfuscation: a quantitative approach](#)



Bertrand Anckaert, Matias Madou, Bjorn De Sutter, Bruno De Bus, Koen De Bosschere, Bart Preneel

October 2007 QoP '07: Proceedings of the 2007 ACM workshop on Quality of protection

Publisher: ACM

Full text available:  pdf(212.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 107, Citation Count: 0

Despite the recent advances in the theory underlying obfuscation, there still is a need to evaluate the quality of practical obfuscating transformations more quickly and easily. This paper presents first steps toward a comprehensive evaluation suite ...

Keywords: metrics, program obfuscation, quantification

11 [Informed detection of audio watermark for resolving playback speed modifications](#)

Sylvain Beauget, Michiel van der Veen, Aweke Lemma

September 2004 MM&amp;Sec '04: Proceedings of the 2004 workshop on Multimedia and security

Publisher: ACM

Full text available: [pdf\(388.24 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 61, Citation Count: 0

In this paper, we present a method for informed watermark detection in audio signals. In this context, informed detection refers to the mechanism in which the original media signal is used to improve robustness and/or complexity. Here, we focused on ...

Keyw ords: audio, fingerprinting, informed detector, music distribution, watermarking

12 [Robust digital image watermarking using DWT, DFT and quality based average](#)

Eduardo Fullea, José M. Mart"nez

October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM

Full text available: [pdf\(529.47 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 101, Citation Count: 1

This paper presents a digital image watermarking system that complements a wavelet based insertion module, with a resynchronization module, and a method for selecting the watermark using an estimated-quality-based average. The proposed system has been ...

Keyw ords: DFT, DWT, estimated quality based average, stirmark, watermark

13 [A secure multidimensional point inclusion protocol](#)

Juan Ramón Troncoso-Pastoriza, Stefan Katzenbeisser, Mehmet Celik, Aweke Lemma

September 2007 MM&amp;Sec '07: Proceedings of the 9th workshop on Multimedia &amp; security

Publisher: ACM

Full text available: [pdf\(421.76 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 63, Citation Count: 0

Signal processing in the encrypted domain combines typical signal processing operations and cryptographic primitives to ensure security in applications involving mutually distrusting participants. Several such applications reduce to a *multidimensional* ...

*Keyw ords: computational geometry, homomorphic encryption, point inclusion, secure multipart computation, signal processing in the encrypted domain*

14 [Video booklet: a natural video searching and browsing interface](#)

Cai-Zhi Zhu, Xian-Sheng Hua, Tao Mei, Xiu-Qing Wu

November 2005 MIR '05: Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval

Publisher: ACM

Full text available: [pdf\(1.74 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 47, Citation Count: 0

In this paper, we propose a novel system, named Video Booklet, which enables efficient and natural personal video browsing and searching. In the system, firstly representative thumbnails of a collection of video segments are selected through an elaborate ...

Keywords: active shape models, self-training, video album, video booklet, video retrieval, video summarization

# 15 [A digital rights enabled graphics processing system](#)



Weidong Shi, Hsien-Hsin S. Lee, Richard M. Yoo, Alexandra Boldyreva

September 2006 GH '06: Proceedings of the 21st ACM SIGGRAPH/Eurographics symposium on Graphics hardware

Publisher: ACM

Full text available:



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

With the emergence of 3D graphics/arts assets commerce on the Internet, to protect their intellectual property and to restrict their usage have become a new design challenge. This paper presents a novel protection model for commercial graphics data by ...

# 16 [Public Authentication of 3D Mesh Models](#)

Hao-tian Wu, Yiu-ming Cheung

December 2006 WI '06: Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence

Publisher: IEEE Computer Society

Full text available:



[pdf\(249.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 65, Citation Count: 0

In this paper, a public-key scheme is proposed to authenticate 3D mesh models. It is well known that digital signature schemes can be used for data authentication by generating a separate signature and appending it to the file. Another way is divide ...

# 17 [A survey course on computer audio](#)

Stephen V. Rice

June 2005 Journal of Computing Sciences in Colleges, Volume 20 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available:



[pdf\(127.98 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 133, Citation Count: 0

A new one-semester course for graduate students introduces them to the field of computer audio from a computer science perspective. Students gain an understanding of sound, speech, and music and their digital representation and processing in computer ...

# 18 [Hiding data, forensics, and anti-forensics](#)



Hal Berghel

April 2007 Communications of the ACM, Volume 50 Issue 4

Publisher: ACM

Full text available:



[pdf\(413.95 KB\)](#)



[html\(25.11 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 1308, Citation Count: 0

Delving into the digital warrens for concealing data.

19 [Watermarking cyberspace](#)

Hal Berghel

November 1997 Communications of the ACM, Volume 40 Issue 11

Publisher: ACM

Full text available: [pdf\(1.70 MB\)](#)Additional Information: [full citation](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Citation Count: 3

20 [Estimation of recording location using audio watermarking](#)

Yuta Nakashima, Ryuki Tachibana, Masafumi Nishimura, Noboru Babaguchi

September 2006 MM&amp;Sec '06: Proceedings of the 8th workshop on Multimedia and security

Publisher: ACM

Full text available: [pdf\(209.98 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 58, Citation Count: 0

In this paper, we propose a novel application of audio watermarking, estimation of recording location. The purpose of the paper is to determine the seat location in a theater at which a bootleg recording was made by using a digital video camera. In the ...

Keyw ords: bootleg, digital audio watermarking, estimation, recording location

Results 1 - 20 of 20

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2008 ACM,

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads: [Adobe Acrobat](#) [QuickTime](#) [Windows Media Player](#) [Real Player](#)


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Purchase History](#)

Welcome United States Patent and Trademark Office

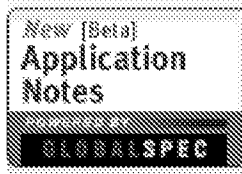
Search Results

[BROWSE](#)
[SEARCH](#)
[IEEE XPLORE GUIDE](#)

Results for "((watermark &lt;and&gt; frame &lt;and&gt; estimate)&lt;in&gt;metadata)"

Your search matched 7 of 1771499 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

» [Search Options](#)[View Session History](#)[New Search](#)» [Key](#)

IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

Modify Search

((watermark &lt;and&gt; frame &lt;and&gt; estimate)&lt;in&gt;metadata)

☐ Check to search only within this results set

Display Format:



Citation



Citation &amp; Abstract

IEEE/ET

Books

Educational Courses

IEEE/ET journals, transactions, letters, magazines, conference proceedings, and standards.

[Select All](#) [Deselect All](#)

1. An ICA and temporal segmentation composite video watermarking scheme  
 Jiande Sun; Ju Liu; Huibo Hu; Tao Luo;  
[Intelligent Multimedia, Video and Speech Processing, 2004. Proceedings of 2004 International Symposium on 20-22 Oct. 2004 Page\(s\):286 - 289](#)  
 Digital Object Identifier 10.1109/ISIMP.2004.1434056  
[AbstractPlus](#) | Full Text: [PDF\(967 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
2. Enhancement of blind watermark retrieval in drift-compensated MPEG video  
 Pranata, S.; Wahadaniah, V.; Yong Liang Guan; Hock Chuan Chua; Hosseini, H.M.M.;  
[Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on Volume 3, 25-28 May 2003 Page\(s\):III-818 - III-821 vol.3](#)  
[AbstractPlus](#) | Full Text: [PDF\(338 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
3. Real-time video watermark embedding system using software on personal computer  
 Echizen, I.; Yamada, T.; Fujii, Y.; Tezuka, S.; Yoshiura, H.;  
[Systems, Man and Cybernetics, 2005 IEEE International Conference on Volume 4, 10-12 Oct. 2005 Page\(s\):3369 - 3373 Vol. 4](#)  
 Digital Object Identifier 10.1109/ICSMC.2005.1571667  
[AbstractPlus](#) | Full Text: [PDF\(288 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
4. Improving Perceptual Quality in Video watermarking using motion estimation  
 Noorkami, M.; Mersereau, R.M.;  
[Image Processing, 2006 IEEE International Conference on 8-11 Oct. 2006 Page\(s\):1389 - 1392](#)  
 Digital Object Identifier 10.1109/ICIP.2006.312594  
[AbstractPlus](#) | Full Text: [PDF\(4620 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
5. An automatic scheme for stereoscopic video object-based watermarking using qualified si  
 Ntalianis, K.S.; Doulamis, A.D.; Doulamis, N.D.; Kollias, S.D.;  
[Image Processing, 2002. Proceedings. 2002 International Conference on](#)

Volume 3, 24-28 June 2002 Page(s):501 - 504 vol.3

Digital Object Identifier 10.1109/ICIP.2002.1039017

[AbstractPlus](#) | Full Text: [PDF](#)(375 KB) [IEEE CNF](#)

[Rights and Permissions](#)



6. Time-axis based video watermarking resisting to geometrical attacks

Sang Maodong; Yang Wenxue; Zhao Yao;

[Signal Processing, 2004. Proceedings. ICSP'04. 2004 7th International Conference on](#)

Volume 3, 31 Aug.-4 Sept. 2004 Page(s):2350 - 2353 vol.3

Digital Object Identifier 10.1109/ICOSP.2004.1442252

[AbstractPlus](#) | Full Text: [PDF](#)(183 KB) [IEEE CNF](#)

[Rights and Permissions](#)



7. An investigation of an MPEG-4 embedded spatial digital watermark developed for tamper d

Winne, D.A.; Knowles, H.D.; Bull, D.R.; Canagarajah, C.N.;

[Consumer Electronics, 2003. ICCE, 2003 IEEE International Conference on](#)

17-19 June 2003 Page(s):64 - 65

Digital Object Identifier 10.1109/ICCE.2003.1218809

[AbstractPlus](#) | Full Text: [PDF](#)(231 KB) [IEEE CNF](#)

[Rights and Permissions](#)

[Help](#) [Contact](#)

[Copy](#)

Indexed by  
 Inspec<sup>®</sup>

Web Images Maps News Shopping Gmail more ▾

Sign in

Google

watermark detection frame subframe

Search

Advanced Search  
Preferences

Web

Results 1 - 10 of about 519 for watermark detection frame subframe. (0.22 seconds)

### A robust digital audio watermarking technique - Signal Processing ...

embedded into each audio sub-frame. In other words, .... before watermark detection. The detecting accuracy rate. is shown in Fig.5. ...

[ieeexplore.ieee.org/iel5/6605/17735/00818121.pdf?arnumber=818121](http://ieeexplore.ieee.org/iel5/6605/17735/00818121.pdf?arnumber=818121) - Similar pages

### Improved Spread Spectrum Digital Audio Watermarking Based on a ...

detection and better synchronization scheme, this approach .... subframes, respectively. If the watermark is longer than 5. frames, the above discussion ...

[ieeexplore.ieee.org/iel5/9745/30732/01423260.pdf?arnumber=1423260](http://ieeexplore.ieee.org/iel5/9745/30732/01423260.pdf?arnumber=1423260) - Similar pages

[More results from ieeexplore.ieee.org »](#)

### Digital Audio Watermarking Based-on Multiple-Bit Hopping and Human ...

unauthorised bit detection and removal of a watermark. In the bit embedding process, each audio frame is segmented into. fixed sub-frames and each sub-frame ...

[portal.acm.org/ft\\_gateway.cfm?id=500244&type=pdf&dl=portal&dl=ACM](http://portal.acm.org/ft_gateway.cfm?id=500244&type=pdf&dl=portal&dl=ACM) - Similar pages

### Method for robust watermarking of content - US Patent 6823455

For example, for a 704x480 frame having 8x8 data blocks, the lower resolution sub-frame constitutes a 88x60 sub-frame. Thereafter, watermark detection is ...

[www.patentstorm.us/patents/6823455-description.html](http://www.patentstorm.us/patents/6823455-description.html) - 49k - Cached - Similar pages

### Watermarking Combined with CELP Speech Coding for Authentication

tion scheme. During watermark detection, the extracted index of ex-. citation sequence of each sub-frame is recorded in the ar-. ray  $K = (k[0], \dots, k[N]$  ...

[ietisy.oxfordjournals.org/cgi/reprint/E88-D/2/330.pdf](http://ietisy.oxfordjournals.org/cgi/reprint/E88-D/2/330.pdf) - Similar pages

### [PDF] A CONTENT-DEPENDENT SPATIALLY LOCALIZED VIDEO WATERMARK FOR ...

File Format: PDF/Adobe Acrobat - View as HTML

Since the locations of the subframes are dependent on visual .... nents to aid in detection

[9]. 3. Full-frame watermark construction: Convolve the foot- ...

[ee.tamu.edu/~deepa/pdf/icip01.pdf](http://ee.tamu.edu/~deepa/pdf/icip01.pdf) - Similar pages

### (WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS

In order to maximize the accuracy of the watermark detection, .... The energy of the audio is then computed for each sub-frame by the whitening stage 240, ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC) - 89k

- Cached - Similar pages

### Spatially localized image-dependent watermarking for statistical ...

In this paper, we develop a novel video watermarking framework based on the ... diversity of the subframe-based watermark to improve detector performance. ...

[cat.inist.fr/?aModele=afficheN&cpsidt=16517570](http://cat.inist.fr/?aModele=afficheN&cpsidt=16517570) - Similar pages

### Real-time frame-dependent video watermarking in VLC domain

Keywords: Attack; Bit-rate control; Collusion; Video frame-dependent watermark; Real-time detection; Robustness. 1. Introduction. 1.1. Literature review ...

[linkinghub.elsevier.com/retrieve/pii/S0923596505000299](http://linkinghub.elsevier.com/retrieve/pii/S0923596505000299) - Similar pages

### Watermark time scale searching - Patent 7266466

Consequently, real time implementation of a watermark detector utilizing such a .... The

energy of the audio is then computed for each sub-frame by the ...  
[www.freepatentsonline.com/7266466.html](http://www.freepatentsonline.com/7266466.html) - 97k - [Cached](#) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 [Next](#)

---

[watermark detection frame subframe](#)

[Search](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)



Web Images Maps News Shopping Gmail more ▾

Sign in

Google

watermark detection frame subframe estimate

Search

Advanced Search  
Preferences

Web Results 1 - 10 of about 279 for watermark detection frame subframe estimate. (0.08 seconds)

### OCRed document

In this section, we discuss the MASK watermark detector. To facilitate the discussion, .... near the center of the lobe, the sub-frame best aligned with ...

[ieeexplore.ieee.org/iel5/6709/27575/01231077.pdf?arnumber=1231077](http://ieeexplore.ieee.org/iel5/6709/27575/01231077.pdf?arnumber=1231077) - Similar pages

#### Spatially Localized Image-Dependent Watermarking for Statistical ...

by dividing the watermark frames into smaller subframes, and ..... Thus at the detector we estimate the scaling factors from the wa- termarked frame and ...

[ieeexplore.ieee.org/iel5/6046/30174/01386241.pdf?arnumber=1386241](http://ieeexplore.ieee.org/iel5/6046/30174/01386241.pdf?arnumber=1386241) - Similar pages

[More results from ieeexplore.ieee.org »](#)

### Watermark time scale searching - US Patent 7266466

In the detector, this property is utilized to estimate the envelope energy of the ... The energy of the audio is then computed for each sub-frame by the ...

[www.patentstorm.us/patents/7266466-description.html](http://www.patentstorm.us/patents/7266466-description.html) - 70k - [Cached](#) - [Similar pages](#)

### Digital Audio Watermarking Based-on Multiple-Bit Hopping and Human ...

unauthorised bit detection and removal of a watermark. In the bit embedding process, each audio frame is segmented into. fixed sub-frames and each sub-frame ...

[portal.acm.org/ft\\_gateway.cfm?id=500244&type=pdf&dl=portal&dl=ACM](http://portal.acm.org/ft_gateway.cfm?id=500244&type=pdf&dl=portal&dl=ACM) - Similar pages

### Watermarking Combined with CELP Speech Coding for Authentication

tion scheme. During watermark detection, the extracted index of ex- citation sequence of each sub-frame is recorded in the ar- ray  $K = (k[0], \dots, k[N]$  ...

[ietisy.oxfordjournals.org/cgi/reprint/E88-D/2/330.pdf](http://ietisy.oxfordjournals.org/cgi/reprint/E88-D/2/330.pdf) - Similar pages

### Decoding of watermarked information signals - Patent 20050166068

A method as claimed in claim 1, wherein each sub-frame overlaps an adjacent ..... In the detector, this property is utilized to estimate the envelope energy ...

[www.freepatentsonline.com/y2005/0166068.html](http://www.freepatentsonline.com/y2005/0166068.html) - 77k - [Cached](#) - [Similar pages](#)

### Real-time frame-dependent video watermarking in VLC domain

then the estimated watermark is subtracted from. all the frames in order that the hidden signal .... literature, regularly tiled subframes [9] or feature ...

[linkinghub.elsevier.com/retrieve/pii/S0923596505000299](http://linkinghub.elsevier.com/retrieve/pii/S0923596505000299) - Similar pages

### [PDF] High-Rate Data Embedding in Unvoiced Speech

File Format: PDF/Adobe Acrobat - [View as HTML](#)

on the detection of pseudo-random noise sequences belong to this. category. .... For each sub-frame, the power of the watermark-signal ...

<https://www.spsc.tugraz.at/basilic/>

[Publications/2006/HK06a/Hofbauer\\_ICSLP\\_2006\\_revised.pdf](#) - Similar pages

### Robust and efficient content-based digital audio watermarking

each audio sub-frame. In other words, one bit is encoded. with multiple bits. .... dio and the reliability of watermark detection in the presence ...

[www.springerlink.com/index/pjl0n9by8vd1xtbq.pdf](http://www.springerlink.com/index/pjl0n9by8vd1xtbq.pdf) - Similar pages

### (WO/2000/039955) DIGITAL AUDIO WATERMARKING USING CONTENT-ADAPTIVE ...

Each sub-frame carries one echo. For each echo, there is a set of parameters determined in

the .... 4 that is performed before watermark detection. ...

[www.wipo.int/pctdb/en/wo.jsp?IA=WO2000039955&wo=2000039955&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?IA=WO2000039955&wo=2000039955&DISPLAY=DESC) - 90k

- [Cached](#) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 [Next](#)

---

watermark detection frame subframe estimate

[Search](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

Web Images Maps News Shopping Gmail more ▾

[Sign in](#)

Google

watermark detection frame subframe estimate

Search

[Advanced Search](#)  
[Preferences](#)

Web Results 11 - 20 of about 279 for [watermark detection frame subframe estimate](#). (0.08 seconds)

### [Content-Adaptive Digital Music Watermarking Based on Music ...](#)

Furthermore, watermark detection does not need the original music as a reference. ....  
subframe in the  $i$ th frame, the watermarked audio signal  $s$  ...  
[portal.acm.org/ft\\_gateway.cfm?id=1198303&type=pdf](#) - [Similar pages](#)

### [\[PDF\] A Novel Approach to Collusion-resistant Video Watermarking](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

The Watermark Detector. The first step in the detection process is to estimate the locations of the subframes so that we can then proceed ...  
[ee.tamu.edu/~deepa/pdf/4675-53.pdf](#) - [Similar pages](#)

### [Automatic Structure Detection for Popular Music](#)

Therefore, we extracted 20 coefficients of the OSCC feature per subframe, .... The average frame-based accuracy of chord detection is 80.87 percent. ...  
[doi.ieeecomputersociety.org/10.1109/MMUL.2006.3](#) - [Similar pages](#)

### [\[PS\] Digital Watermarking: Status, Limitations and Prospects](#)

File Format: Adobe PostScript - [View as Text](#)

A generic watermark detection scheme is depicted in Figure 3. .... desirable properties, and the sub-frame locations are synchronized using visual content ...  
[www.cs.ualberta.ca/TechReports/2002/TR02-01/TR02-01.ps](#) - [Similar pages](#)

### [Method of steganographically embedding geo-location data in media ...](#)

Digital watermarking technology is used in conjunction with map data, ... interframe coding method and apparatus utilizing selective sub-frame differencing ...  
[www.patentstorm.us/patents/7099492.html](#) - 26k - [Cached](#) - [Similar pages](#)

### [Backwards Compatible Wideband Telephony](#)

The time envelope of the excitation signal is formed with a sub-frame resolution .... of the watermark with the host signal in the watermark detector [Costa ...  
[doi.wiley.com/10.1002/9780470727188.ch9](#) - [Similar pages](#)

### [\[PDF\] Multiresolution Motion Estimation for Low-Rate Video Frame ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

set of subframes with different resolutions. MRME is. utilized to estimate motion at different resolutions of. video frame. ...  
[www.hindawi.com/GetPDF.aspx?doi=10.1155/S1110865704403060](#) - [Similar pages](#)

### [TD-SCDMA serves as a new battleground for 3G](#)

Each sub-frame consists of ten time slots (TS), seven of which can be .... Warning: The images on this site are protected by digital watermark technology. ...  
[www.eetindia.co.in/ART\\_8800389207\\_1800006\\_NP\\_246dbfda.HTM](#) - 82k - [Cached](#) - [Similar pages](#)

### [\[PDF\] SECURE AND ROBUST COMPRESSED-DOMAIN VIDEO WATERMARKING FOR H.264](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

frame rate modification may also affect watermark detection algorithms. .... subframes centered around a set of visually significant anchor points, ...  
[etd.gatech.edu/theses/available/etd-06032007-151358/](#)

[unrestricted/maneli\\_noorkami\\_200708\\_phd.pdf](#) - [Similar pages](#)

### Keith Price Bibliography author Listing for zhe

Zhen, J.[Ji] \* Intelligent Watermark Detection Decoder Based on Independent Component Analysis ..... Subframe Video Synchronization via 3D Phase Correlation ...

[www.visionbib.com/bibliography/author/zhe.html](http://www.visionbib.com/bibliography/author/zhe.html) - 46k - [Cached](#) - [Similar pages](#)

[Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [Next](#)

---

watermark detection frame subframe estimate

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

Web Images Maps News Shopping Gmail more ▾

[Sign in](#)

Google

watermark detection estimate time offset

Search

[Advanced Search](#)  
[Preferences](#)

Web

Results 1 - 10 of about 6,660 for watermark detection estimate time offset. (0.10 seconds)

### OCRed document

how this can be achieved in the MASK detector. The generalized watermark detector arranged to resolve possible time-offset and time-scale modifications is ...

[ieeexplore.ieee.org/iel5/6709/27575/01231077.pdf?arnumber=1231077](http://ieeexplore.ieee.org/iel5/6709/27575/01231077.pdf?arnumber=1231077) - [Similar pages](#)

A robustness and audibility analysis of a temporal envelope ...

time-offset and time-scale modification between the embedder and the detector. .... can be estimated. Fig. 5. The Mask watermark detector ...

[ieeexplore.ieee.org/iel5/6709/27575/01231077.pdf?tp=&isnumber=&arnumber=1231077](http://ieeexplore.ieee.org/iel5/6709/27575/01231077.pdf?tp=&isnumber=&arnumber=1231077) -

[Similar pages](#)

[More results from ieeexplore.ieee.org »](#)

### Watermark time scale searching - US Patent 7266466

Consequently, real time implementation of a watermark detector utilizing such a time ..... an estimate of the watermark sequence with different time offset. ...

[www.patentstorm.us/patents/7266466-description.html](http://www.patentstorm.us/patents/7266466-description.html) - 70k - [Cached](#) - [Similar pages](#)

### Watermark time scale searching - US Patent 7266466

Watermark time scale searching - US Patent 7266466 from Patent Storm. Method and apparatus are described for compensating for a linear time scale change in ...

[www.patentstorm.us/patents/7266466-claims.html](http://www.patentstorm.us/patents/7266466-claims.html) - 17k - [Cached](#) - [Similar pages](#)

[More results from www.patentstorm.us »](#)

### Synchronizing watermark detectors in geometrically distorted ...

A method of synchronizing a digital watermark detector divides a watermarked ... find the sub-pixel point with maximum correlation as the offset estimate. ...

[www.freepatentsonline.com/6975745.html](http://www.freepatentsonline.com/6975745.html) - 45k - [Cached](#) - [Similar pages](#)

### Proceedings Template - WORD

for resolving possible playback speed and time-offset changes in the watermarked .... estimating the watermark. 3. INFORMED DETECTOR. 3.1 General Concept ...

[portal.acm.org/ft\\_gateway.cfm?id=1022453&type=pdf](http://portal.acm.org/ft_gateway.cfm?id=1022453&type=pdf) - [Similar pages](#)

### (WO/2003/083858) TIME DOMAIN WATERMARKING OF MULTIMEDIA SIGNALS

These estimates of the watermark sequence are required to resolve any time offset that may exist between the embedder and the detector, ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083858&IA=WO2003083858&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083858&IA=WO2003083858&DISPLAY=DESC) - 81k

- [Cached](#) - [Similar pages](#)

### (WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS

These estimates of the watermark sequence are required to resolve time offset that may exist between the embedder and the detector, so that the watermark ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC) - 89k

- [Cached](#) - [Similar pages](#)

[More results from www.wipo.int »](#)

### [PDF] Research Article Reverse-Engineering a Watermark Detector Using an ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

(2) Use the watermark detector to estimate P ..... time instants the incoming signal has to be sampled (time synchronization), and for bandpass ...

[www.hindawi.com/Getpdf.aspx?doi=10.1155/2007/43034](http://www.hindawi.com/Getpdf.aspx?doi=10.1155/2007/43034) - [Similar pages](#)

[PDF] [Automatic Music Monitoring and Boundary Detection for Broadcast ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Time. Ads. DJ talks. News. Watermark detection in the broadcast monitoring ... that have their origins slightly offset from each other. ...

[www.tri.ibm.com/projects/RightsManagement/datahiding/paper/Taiga\\_EI02Slide.pdf](http://www.tri.ibm.com/projects/RightsManagement/datahiding/paper/Taiga_EI02Slide.pdf) -

[Similar pages](#)

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)

---

watermark detection estimate time offset

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

Web Images Maps News Shopping Gmail more ▾

[Sign in](#)

Google

overlapping sub-frame watermark

Search

[Advanced Search](#)  
[Preferences](#)

Web

Results 1 - 10 of about 815 for overlapping sub-frame watermark. (0.37 seconds)

Did you mean: [overlapping subframe watermark](#)

[Spatially Localized Image-Dependent Watermarking for Statistical ...](#)

into a different subset of pixels in the subframe. Therefore, there is no overlap of the encoded watermark sequences for different ...

[ieeexplore.ieee.org/iel5/6046/30174/01386241.pdf?arnumber=1386241](http://ieeexplore.ieee.org/iel5/6046/30174/01386241.pdf?arnumber=1386241) - [Similar pages](#)

[Improved Spread Spectrum Digital Audio Watermarking Based on a ...](#)

Figure 1. Tuning of the Watermarks. Because of the 75% overlap, the first subframe of the watermark (denoted as 1) appears only once among all the ...

[ieeexplore.ieee.org/iel5/9745/30732/01423260.pdf?arnumber=1423260](http://ieeexplore.ieee.org/iel5/9745/30732/01423260.pdf?arnumber=1423260) - [Similar pages](#)

[More results from ieeexplore.ieee.org »](#)

[\(WO/2003/083857\) DECODING OF WATERMARKED INFORMATION SIGNALS](#)

(WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS ... A

method as claimed in claim 1, wherein each sub-frame overlaps an adjacent sub-frame. ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=CLAIMS](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=CLAIMS) -

17k - [Cached](#) - [Similar pages](#)

[\[PDF\] A CONTENT-DEPENDENT SPATIALLY LOCALIZED VIDEO WATERMARK FOR ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

lation distortions; a non-overlapping union of these .... Watermarked (spatial domain mark)

barbara. the subframe locations are synchronized using visual ...

[ee.tamu.edu/~deepa/pdf/icip01.pdf](http://ee.tamu.edu/~deepa/pdf/icip01.pdf) - [Similar pages](#)

[Watermark time scale searching - US Patent 7266466](#)

It will be appreciated that the robustness of a watermark will normally be a trade off .....

Preferably, each sub-frame overlaps with an adjacent sub-frame. ...

[www.patentstorm.us/patents/7266466-description.html](http://www.patentstorm.us/patents/7266466-description.html) - 70k - [Cached](#) - [Similar pages](#)

[Method and apparatus for embedding digital watermarking into ...](#)

A method and apparatus for adding watermark data to an input signal is provided. ...

embedding method 100 may be active in a pipelined, overlapping fashion. ...

[www.patentstorm.us/patents/7114071-description.html](http://www.patentstorm.us/patents/7114071-description.html) - 55k - [Cached](#) - [Similar pages](#)

[More results from www.patentstorm.us »](#)

[Decoding of watermarked information signals - Patent 20050166068](#)

A method as claimed in claim 1, wherein each sub-frame overlaps an adjacent ... It will be

appreciated that the robustness of a watermark will normally be a ...

[www.freepatentsonline.com/y2005/0166068.html](http://www.freepatentsonline.com/y2005/0166068.html) - 77k - [Cached](#) - [Similar pages](#)

[Watermark time scale searching - Patent 7266466](#)

A watermark embedded in the time domain (e.g. in an audio signal) will be affected by .....

Preferably, each sub-frame overlaps with an adjacent sub-frame. ...

[www.freepatentsonline.com/7266466.html](http://www.freepatentsonline.com/7266466.html) - 97k - [Cached](#) - [Similar pages](#)

[More results from www.freepatentsonline.com »](#)

[Content-Adaptive Digital Music Watermarking Based on Music ...](#)

into 60ms windows with 50% overlap and both the frequency and energy transients are

analyzed ..... subframe in the ith frame, the watermarked audio signal s ...  
[portal.acm.org/ft\\_gateway.cfm?id=1198303&type=pdf](http://portal.acm.org/ft_gateway.cfm?id=1198303&type=pdf) - [Similar pages](#)

[IP Newsflash - EP Monitor \(EP0828372B1: A spread spectrum ...](#)  
Screening method and imaging system for overlapping sub-images ..... Apparatus and  
methods for inserting and detecting electronic watermark ...  
[www.ipnewsflash.com/ep\\_monitor.php?display=83796&](http://www.ipnewsflash.com/ep_monitor.php?display=83796&class=H04N&subclass=H&pub_type=both&date...)  
[class=H04N&subclass=H&pub\\_type=both&date...](#) - 723k - [Cached](#) - [Similar pages](#)

Did you mean to search for: overlapping subframe watermark

1 2 3 4 5 6 7 8 9 10 [Next](#)

---

overlapping sub-frame watermark

[Search](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)



Web Images Maps News Shopping Gmail more ▾

Sign in

Google

band limited frequency smooth watermark

Search

[Advanced Search](#)  
[Preferences](#)

Web Results 1 - 10 of about 25,000 for band limited frequency smooth watermark. (0.24 seconds)

### (WO/2003/083858) TIME DOMAIN WATERMARKING OF MULTIMEDIA SIGNALS

A method of generating a watermark signal for embedding in a multimedia signal, ... has a band limited frequency behavior and a smooth temporal behavior. ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083858&IA=WO2003083858&DISPLAY=CLAIMS](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083858&IA=WO2003083858&DISPLAY=CLAIMS) - 21k - [Cached](#) - [Similar pages](#)

### Signal Processing : A robust image watermarking technique based on ...

The local band limited contrast introduced by Peli [42] takes into .... (a) Frequency watermark in sub-band (IV,1); (b) spatial representation of the ...

[linkinghub.elsevier.com/retrieve/pii/S0165168406004154](http://linkinghub.elsevier.com/retrieve/pii/S0165168406004154) - [Similar pages](#)

### OCRed document

specking, embedding watermarks in the frequency domain. can provide more protection under ..... modifying the definition of "local band limited contrast" ...

[ieeexplore.ieee.org/iel5/9459/30105/01380539.pdf?arnumber=1380539](http://ieeexplore.ieee.org/iel5/9459/30105/01380539.pdf?arnumber=1380539) - [Similar pages](#)

### [PDF] Image watermarking technique based on the

File Format: PDF/Adobe Acrobat - [View as HTML](#)

distortions in these areas than in smooth ones. .... band-limited, i.e. .... [22] developed a new frequency-domain wavelet-based watermarking technique ...

[liris.cnrs.fr/publis/pdf/Baskurt-2004\\_liris1640.pdf?id=1640](http://liris.cnrs.fr/publis/pdf/Baskurt-2004_liris1640.pdf?id=1640) - [Similar pages](#)

### Z-transform implementation of digital watermarks - US Patent 6853726

In a digital signal processing environment, a sampling theorem, known specifically as the Nyquist Theorem, proves that band limited signals can be sampled, ...

[www.patentstorm.us/patents/6853726-description.html](http://www.patentstorm.us/patents/6853726-description.html) - 49k - [Cached](#) - [Similar pages](#)

### [PDF] Time-Frequency Signal Synthesis and Its Application in Multimedia ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

the frequency-limited watermark with greater strength. This ... [17] especially to attacks in the high frequency band such as ...

[www.hindawi.com/Getpdf.aspx?doi=10.1155/ASP/2006/86712](http://www.hindawi.com/Getpdf.aspx?doi=10.1155/ASP/2006/86712) - [Similar pages](#)

### Decoding of watermarked information signals - Patent 20050166068

... has a band limited frequency behavior and a smooth temporal behavior. ... It will be appreciated that the robustness of a watermark will normally be a ...

[www.freepatentsonline.com/y2005/0166068.html](http://www.freepatentsonline.com/y2005/0166068.html) - 77k - [Cached](#) - [Similar pages](#)

### [PDF] A Novel Audio Watermarking Algorithm for Copyright Protection of ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

a linear frequency scale but on limited frequency bands. called critical bands. The auditory system can roughly be de-. scribed as a band-pass filter bank. ...

[etrij.etri.re.kr/Cyber/servlet/GetFile?fileid=SPF-1059713806241](http://etrij.etri.re.kr/Cyber/servlet/GetFile?fileid=SPF-1059713806241) - [Similar pages](#)

### Projection Onto Convex Sets with Watermarking for Error Concealment

areas, a low pass band-limited spectrum is imposed. Specifically, in the Fourier. transform domain, all high frequency coefficients outside a particular ...

[www.springerlink.com/index/h493p4061257723q.pdf](http://www.springerlink.com/index/h493p4061257723q.pdf) - [Similar pages](#)

### CiteULike: Color Image Watermarking Using Multidimensional Fourier ...

Color watermarks (yellow and blue) are embedded in the frequency domain of the chromatic channels by using the spatiochromatic discrete Fourier transform. ...  
[www.citeulike.org/user/masaakif/article/2439704](http://www.citeulike.org/user/masaakif/article/2439704) - 212k - [Cached](#) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 [Next](#)

---

band limited frequency smooth watermark

[Search](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

Web Images Maps News Shopping Gmail more ▾

Sign in

Google

symmetric temporal behavior

Search

Advanced Search  
Preferences

Web

Results 1 - 10 of about 1,010,000 for symmetric temporal behavior. (0.29 seconds)

### JSTOR: Spherically Symmetric Distributions of Matter without Pressure

Robertson' used a convenient notation for the temporal behavior of the homo- .... Subject to the foregoing physical restrictions, spherically symmetric ...

links.jstor.org/sici?sici=0027-8424(19650115)53%3A1%3C1%3ASSDOMW%3E2.0.CO%3B2-9 - Similar pages

### The forcing and balance of zonally symmetric models in a global model

The forcing and balance of zonally symmetric models in a global model ... The temporal behavior of the zonal wavenumber 0 Hadley modes in the U. S. Navy's ...

cat.inist.fr/?aModele=afficheN&cpsidt=4724364 - Similar pages

### [hep-ph/0604067] Emergence of Complex Spatio-Temporal Behavior in ...

... during the evolution of nonlinear scalar field models with symmetric and asymmetric double-well potentials. Complex spatio-temporal behavior emerges as ...

arxiv.org/abs/hep-ph/0604067 - 5k - Cached - Similar pages

### AMS Online Journals - The Forcing and Balance of Zonally Symmetric ...

The temporal behavior of the zonal wavenumber 0 Hadley modes in the U.S. Navy's ... Only the largest-scale zonally symmetric modes show any evidence of ...

ams.allenpress.com/perlserv/?request=get-abstract&doi=10.1175%2F1520-0493(1993)121%3C0470%3ATFABOZ%3E... - Similar pages

### Dynamical intelligent network based on group representation theory ...

(F-i) Symmetric coupling structure among the cells. associates their spatial firing patterns with. their temporal behavior. ...

ieeexplore.ieee.org/iel5/7591/20704/00957676.pdf?arnumber=957676 - Similar pages

### Epilepsy & Behavior : The Mozart Effect\*1 - Published by Elsevier

M N Bodner, Y D Zhou, G L Shaw and J M Fuster, Symmetric temporal patterns in cortical spike trains during performance of a short term memory task. ...

linkinghub.elsevier.com/retrieve/pii/S1525505001902501 - Similar pages

### University of Chicago Press - Spectral and Temporal Behavior of ...

We find and study a variety of the spectral-temporal behavior during the decay ..... from a spherical symmetric surface expanding at a relativistic speed, ...

www.journals.uchicago.edu/cgi-bin/resolve?ApJ54517 - Similar pages

### Chorioretinal thermal behavior

solving cylindrically symmetric heat conduction problems in biological media. ... and temporal behavior of chorioretinal temperature distributions produced ...

www.springerlink.com/index/B6443J644P7XU608.pdf - Similar pages

### Imperfect gluing bifurcation in a temporal glide-reflection ...

Imperfect gluing bifurcation in a temporal glide-reflection symmetric ... cases rich dynamics associated with homoclinic/heteroclinic behavior is present. ...

link.aip.org/link?PHFLE6/14/L33/1 - Similar pages

### Brazilian Journal of Physics - Emergence of complex spatio ...

Complex spatio-temporal behavior emerges as the system seeks to establish ...  $a = 0$  and

the potential is an anharmonic single well symmetric about  $f = 0$ . ...

[www.scielo.br/scielo.php?pid=S0103-97332006000700007&script=sci\\_arttext](http://www.scielo.br/scielo.php?pid=S0103-97332006000700007&script=sci_arttext) - 63k -  
[Cached](#) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 [Next](#)

---

symmetric temporal behavior

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

Web Images Maps News Shopping Gmail more ▾

[Sign in](#)

Google

symmetric temporal behavior watermark

Search

[Advanced Search](#)  
[Preferences](#)

Web

Results 1 - 10 of about 50,400 for symmetric temporal behavior watermark. (0.28 seconds)

### (WO/2003/083858) TIME DOMAIN WATERMARKING OF MULTIMEDIA SIGNALS

A method of generating a watermark signal for embedding in a multimedia signal, ... shaping function has a symmetric or anti-symmetric temporal behavior. ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083858&IA=WO2003083858&DISPLAY=CLAIMS](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083858&IA=WO2003083858&DISPLAY=CLAIMS) - 21k - [Cached](#) - [Similar pages](#)

### (WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS

(WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS ... said window shaping function has a symmetric or an anti-symmetric temporal behavior. ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=CLAIMS](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=CLAIMS) - 17k - [Cached](#) - [Similar pages](#)  
[More results from www.wipo.int »](#)

### Window shaping functions for watermarking of multimedia signals ...

A method of generating a watermark signal for embedding in a multimedia host signal ... the window shaping function has an anti-symmetric temporal behavior. ...

[www.freepatentsonline.com/y2005/0147248.html](http://www.freepatentsonline.com/y2005/0147248.html) - 71k - [Cached](#) - [Similar pages](#)

### Decoding of watermarked information signals - Patent 20050166068

... shaping function has a symmetric or an anti-symmetric temporal behavior. ... It will be appreciated that the robustness of a watermark will normally be ...

[www.freepatentsonline.com/y2005/0166068.html](http://www.freepatentsonline.com/y2005/0166068.html) - 77k - [Cached](#) - [Similar pages](#)

### Temporal Synchronization in Video Watermarking

The watermark detection model generalizes the behavior of. symmetric (private key) video watermark detectors, analogous. to the watermark embedding model ...

[ieeexplore.ieee.org/iel5/78/29498/01337278.pdf?arnumber=1337278](http://ieeexplore.ieee.org/iel5/78/29498/01337278.pdf?arnumber=1337278) - [Similar pages](#)

### Video and image watermark synchronization

A new framework is developed for temporal synchronization in blind symmetric video watermarking. Embedding and detection models are proposed that encompass ...

[docs.lib.purdue.edu/dissertations/AAI3185794/](http://docs.lib.purdue.edu/dissertations/AAI3185794/) - 10k - [Cached](#) - [Similar pages](#)

### 7 Watermarking Streaming Video: The Temporal Synchronization Problem

For simplicity, we focus on symmetric watermarking techniques ....  $\beta = 1$ ) has behavior similar to an independent key watermark and can be ...

[www.springerlink.com/index/r1pr341342267113.pdf](http://www.springerlink.com/index/r1pr341342267113.pdf) - [Similar pages](#)

### [PDF] Temporal Synchronization in Video Watermarking

File Format: PDF/Adobe Acrobat

For simplicity, we focus on symmetric watermarking techniques in this .... having minimal local redundancy (large  $\alpha$ ,  $\beta=1$ ) has similar behavior to an ...

[ftp://skynet.ecn.purdue.edu/pub/dist/delp/ei02-water/paper.pdf](http://ftp://skynet.ecn.purdue.edu/pub/dist/delp/ei02-water/paper.pdf) - [Similar pages](#)

### [PS] Robust 3D DFT Video Watermarking

File Format: Adobe PostScript - [View as Text](#)

To perform the spatio-temporal based watermarking, the video is viewed as a ..... to be kept symmetric relative to the origin, otherwise the inverse DFT ...

[cuiwww.unige.ch/~vision/Publications/postscript/99/DegillaumeCsurkaORuanaidhPun\\_eiswmc99.ps.gz](http://cuiwww.unige.ch/~vision/Publications/postscript/99/DegillaumeCsurkaORuanaidhPun_eiswmc99.ps.gz) - [Similar pages](#)

[PDF] [COMPLEXITY REGULARIZED VIDEO WATERMARKING VIA QUANTIZATION OF ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

where video is treated as a 3D signal (with heavy temporal correla- tions) and the watermarking algorithm is designed accordingly. ...

[research.microsoft.com/~kivancm/publications/eusipco05-video.pdf](http://research.microsoft.com/~kivancm/publications/eusipco05-video.pdf) - [Similar pages](#)

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)

---

symmetric temporal behavior watermark

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

Web Images Maps News Shopping Gmail more ▾

[Sign in](#)

Google

watermark smoothing factor

Search

[Advanced Search](#)  
[Preferences](#)

Web

Results 1 - 10 of about 44,500 for watermark smoothing factor. (0.31 seconds)

## Watermark Factory

Sponsored Link

[www.watermarkfactory.com](http://www.watermarkfactory.com)

Top Selling Watermark Factory Low Price Through This Ad!

## Phorum 5 :: ThumbHTML :: Water Mark problem

Jun 7, 2004 ... Watermark Font Size: 10 Watermark Offset X: -10 pixels Watermark Offset

Y: -10 pixels Watermark Position: 8 Watermark Smoothing Factor: 4 ...

[landscapeimage.com/phorum/read.php?1,831](http://landscapeimage.com/phorum/read.php?1,831) - 37k - [Cached](#) - [Similar pages](#)

## ThumbHTML - Watermarking

You can now add a text watermark to the images created by ThumbHTML. ... the text offset, the text colour, the smoothing factor and the transparency. ...

[landscapeimage.com/ThumbHTML/help/watermark.html](http://landscapeimage.com/ThumbHTML/help/watermark.html) - 4k - [Cached](#) - [Similar pages](#)

## A temporal domain audio watermarking technique - Signal Processing ...

buffer length. and the watermark sequence length. , the smoothing factor. is such that.

(20). Taking a large smoothing factor improves the accuracy of the ...

[ieeexplore.ieee.org/iel5/78/26657/01188751.pdf?arnumber=1188751](http://ieeexplore.ieee.org/iel5/78/26657/01188751.pdf?arnumber=1188751) - [Similar pages](#)

## LNAI 3214 - An RDWT Based Logo Watermark Embedding Scheme with ...

are smoothing factors at the texture regions and flat re- gions;.  $\beta$ . is fixed at 0.2 and.  $\alpha$ . is adapted to control the smooth. The watermark image ...

[www.springerlink.com/index/atl054gvpb67gp3g.pdf](http://www.springerlink.com/index/atl054gvpb67gp3g.pdf) - [Similar pages](#)

## LNCS 2939 - A Robust Logo Multiresolution Watermarking Based on ...

the watermark strengths of texture and edge regions and flat regions at. LH. I. I. HL. I. I. sub- bands;.  $\alpha$ . ,.  $\beta$ . are smoothing factors at the texture ...

[www.springerlink.com/index/K5W4RH2URJLVTK5C.pdf](http://www.springerlink.com/index/K5W4RH2URJLVTK5C.pdf) - [Similar pages](#)

[More results from www.springerlink.com »](#)

## Watermark time scale searching - Patent 7266466

Thus, given the buffer length  $L_b$  and the watermark sequence length  $L_w$  , the smoothing factor  $s_f$  is such that:  $L_b = s_f L_w$  (19) ...

[www.freepatentsonline.com/7266466.html](http://www.freepatentsonline.com/7266466.html) - 97k - [Cached](#) - [Similar pages](#)

## Watermark time scale searching - US Patent 7266466

Thus, given the buffer length  $L_b$  and the watermark sequence length  $L_w$ , the smoothing factor  $s_f$  is such that:  $L_b = s_{fL} \cdot w$  (19) ...

[www.patentstorm.us/patents/7266466-description.html](http://www.patentstorm.us/patents/7266466-description.html) - 70k - [Cached](#) - [Similar pages](#)

## [Paper] Multiresolution Image Watermarking using Fuzzy Inference ...

The extracted of watermarks, correlation and error rate under sharpen and smoothing operation. Attack Correlation Error rate Sharpen 0.9945 0.19% Median ...

[www.actapress.com/PDFViewer.aspx?paperId=21089](http://www.actapress.com/PDFViewer.aspx?paperId=21089) - [Similar pages](#)

## Signal Processing : Robust multi-logo watermarking by RDWT and ICA ...

For watermark security, embedded logo watermarks are encrypted to random noise .....  $\alpha_1$ ,  $\alpha_2$  are smoothing factors at the texture regions, and flat regions; ...

[linkinghub.elsevier.com/retrieve/pii/S0165168405004196](http://linkinghub.elsevier.com/retrieve/pii/S0165168405004196) - [Similar pages](#)

(WO/2003/083857) DECODING OF WATERMARKED INFORMATION SIGNALS

Thus, given the buffer length  $L_b$  and the watermark sequence length  $L_w$ , the smoothing factor  $sf$  is such that:  $L_b = sfL_w$  (19) In another preferred embodiment, ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2003083857&IA=WO2003083857&DISPLAY=DESC) - 89k

- [Cached](#) - [Similar pages](#)

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)

---

watermark smoothing factor

Search

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#) | [Try Google Experimental](#)

---

©2008 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)